

Supporting information Figure 4: Cardiorespiratory responses as a function of running speed, separately displayed for the 4 different gravitational conditions tested. The solid lines denote the regression lines of each condition whilst the shaded colors represent the standard errors with 95% of confidence interval.

Figure 3A: Maximum reached oxygen uptake in [ml /(kg*min)] in relation to running speed in [kilometre/h]

Figure 3B: Maximum reached heartrate in [beats/min] in relation to running speed in [kilometre/h]

Figure 3C: Oxygenpulse in [ml /heartbeat] as a function of running speed in [kilometre/h]

Visits Protocol		Positon	G-Loading	Target		
V0	Bruce	Upright	1.00	VO₂ max		
		Supine	0.30-1.00	familiarization		
V1	Incremental	Upright	1.00	Maximal Speed		
V2-V4	Incremental	Supine	0.30, 0.60, 1.00 in randomized order	Maximal Speed		

Supporting information Table 4: Overview of the five visits that were performed. "VO2max": Maximum Oxygen uptake

Time in	0-5	5-10	10-15	15-	20-	24-	28-	32-	36-	40-	44-	48-	52
minutes				20	24	28	32	36	40	44	48	52	
Speed	0	25%	50%	0	4	6.5	9	11.5	14	16.5	19	4	stop
in km/h		$\dot{V}O_{2max}$	$\dot{V}O_{2\text{max}}$									cool	
												down	

Supporting information Table 5: Speed profile during visits V1-V4